

Title (en)

Effective channel priority processing for transfer controller with hub and ports

Title (de)

Wirksame Kanalprioritätverarbeitung für Übertragungssteuerung mit Knotenpunkt und Toren

Title (fr)

Traitement de priorité de canal effectif pour contrôleur de transfert avec concentrateur et port

Publication

**EP 1115065 A3 20050105 (EN)**

Application

**EP 00310901 A 20001207**

Priority

US 16936999 P 19991207

Abstract (en)

[origin: EP1115065A2] A data transfer controller with hub and ports uses an effective channel priority processing technique and algorithm. Data transfer requests are queued in a first-in-first-out fashion at the data source ports. Each data transfer request has a priority level for execution. In effective channel priority processing the priority level (CHANNEL 0) assigned to a source port (111) is the greatest priority level of any data transfer request (520) in the corresponding first-in-first-out queue (SOURCE PORT RESPONSE QUEUE). This technique prevents a low priority data transfer request at the output of a source port queue from blocking a higher priority data transfer request further back in the queue. Raising the priority of all data transfer requests within a source port queue enables the low priority data transfer request to complete enabling the high priority data transfer request to be reached. Thus both the low priority data transfer request and the high priority data transfer request in the queue of a single port are serviced before intermediate priority data transfer requests at the output of other source port queues. <IMAGE>

IPC 1-7

**G06F 13/38**; **G06F 13/364**

IPC 8 full level

**G06F 13/36** (2006.01); **G06F 13/40** (2006.01); **H04L 13/08** (2006.01); **H04L 29/06** (2006.01)

CPC (source: EP)

**G06F 13/4022** (2013.01)

Citation (search report)

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Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1115065 A2 20010711**; **EP 1115065 A3 20050105**; **EP 1115065 B1 20100901**; AT E479948 T1 20100915; DE 60044894 D1 20101014; JP 2001217894 A 20010810

DOCDB simple family (application)

**EP 00310901 A 20001207**; AT 00310901 T 20001207; DE 60044894 T 20001207; JP 2000371923 A 20001206